

Record 2: JP5255440A**(ENG) PRODUCTION OF ETHYLENIC POLYMER****Assignee:** IDEMITSU PETROCHEM CO LTD

[no drawing available]

Inventor(s): YAMAMOTO ISAMU**Application No:** JP 8783792 A**Filing Date:** 19920311**Issue/Publication Date:** 19931005

Abstract: (ENG) <sec>PURPOSE: To obtain the subject polymer excellent in below moldability and in the balance between rigidity and environmental stress cracking resistance by performing an excellent three-stage polymerization in the presence of a specific catalyst. CONSTITUTION: When ethylene or its mixture with an α -olefin is polymerized or copolymerized in the presence of a catalyst comprising (A) a solid catalyst component containing a magnesium alkoxide, a Ti compound and an aluminum halide, (B) an organic Al compound and (C) an electron donor, the polymerization or copolymerization reaction is performed by the first step reaction under conditions comprising an η ;1 of 7-20dl/p, a P1 of 10-20wt.% and an α ;1 of 0-5%, by the second step reaction under conditions comprising a η ;2 of 0.5-1.5dl/g, a (p2+p3) of 80-90% and an α ;2 of 0-5% and satisfying the inequality, and subsequently by the third step reaction under conditions comprising an η ;3 of 0.5-1.5dl/g and an α ;3 of 0-5%, wherein the P1, P2 and P3 are the amounts of the polymers produced in the first, second and third steps on the basis of the whole amount of the polymers, η ;1, η ;2 and η ;3 are the intrinsic viscosities of the polymers, and the α ;1, α ;2 and α ;3 are the amounts of the α -olefin units in the polymers, respectively.</sec>

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